

# ***BOSE*® Model 550**

## **AM/FM Stereo Receiver**

### **SCHEMATIC & PARTS LIST**

### **FINAL**

SEMICONDUCTORS			Symbol	Description	Part Number
Symbol	Description	Part Number			
<b>TRANSISTORS</b>					
Q1	FET 2SK55(D)	109879	C4	1P(NPO) Ceramic	109930
Q2	2SC535(B)	109880	C5,11,12	2P(NPO) Ceramic	109935
Q3	2SC461(B)	109881	C7,43	6P(J) Ceramic	114077
Q4	2SD655(E)	112300	C8	15P(N470) Ceramic	109934
Q5	FET 2SK49(F)	112298	C10	100P(J) Ceramic	109939
Q6	2SC460(B)	112241	C13	16P(N470) Ceramic	114072
Q7,11	2SC460(C)	112138	C14	10P(NPO) Ceramic	109932
Q8,901	2SC458(C)	109885	C15	30P(NPO) Ceramic	109937
Q9,10,451,452,457,458	2SA836(D)	109887	C16	15P(NPO) Ceramic	109938
Q453-456,459,460,902	2SC1335(D)	109888	C17,21-25,27,33,47,	0.047(YZ) Ceramic	114071
Q461-464	2SC1845(E)	112284	C26	0.33/16V Electrolytic	114073
Q465,466	2SA1915(L)	112285	C28,36,49	0.01(YB) Ceramic	113270
Q467,468	2SC945(Q)	112288	C29,30	3.3/16V Electrolytic	113297
Q469,470	2SD415(Q)	112286	C31,34	1/16V Electrolytic	114074
Q471,472	2SB549(Q)	112287	C32	6.8/16V Electrolytic	114075
Q473-476	2SD587(R)	112283	C35	470P(YB) Ceramic	113356
Q477	2SC1384(R)	112289	C38	330P(J) Ceramic	113304
			C39	4.7/16V Electrolytic	113301
<b>I.C.'s</b>			C40,54,59,73,536	47/16V Electrolytic	109962
IC1	HA11211 (FM IF)	112114	C41	1/25V(LL) Electrolytic	112271
IC2	HA1156W (MPX)	112294	C42,58	180P(J) Ceramic	114076
IC3,4	BA312 (PRE AMP)	112295	C44,517,518	22P(J) Ceramic	113310
IC451	FS78 15C (Zenner IC)	112290	C50	15P(N2200) Ceramic	114078
IC452	4558D (OP IC)	110369	C51	350P(J) Polyester	190956
<b>DIODES</b>			C53,55,57,529,530	10/16V Electrolytic	113303
D1,5	1S2787	112301	C56	470P(YB) Ceramic	113356
D2,3,4,	1K261	112302	C60	470P(J) Polyester	109945
D451-454	1SR17-200	112291	C61	.047(M) Polyester	112222
D455,456	WO-6B	109896	C62	.47/25V (LL) Electrolytic	114079
D457	WZ090 (ZENNER)	112292	C63,64	.22/25V (LL) Electrolytic	114080
D458,459	WZ140 (ZENNER)	112293	C65-68	.0056(YB) Ceramic	100397-7
<b>CAPACITORS</b>			C69,70	.001(YB) Ceramic	100397-3
Tolerance Table			C71,72,75,76,87,88,95,96,477,478	4.7/35V (LL) Electrolytic	114081
(G) = 2%	(J) = 5%	(K) = 10%	C77,78	56P(J) Ceramic	113295
		(M) = 20%	C79,80	470/6.3V Electrolytic	114082
		(LL) = Low Leakage	C81,82	330P(J) Ceramic	113304
VCL-5	Variable Capacitor	112361	C83,84	.0012(J) Polyester	112274
C1,6,9,18,20,46,48,52,74	0.022(YZ) Ceramic	114069	C85,86	.0043(J) Polyester	112340
C2	10P(N470) Ceramic	109928	C89	10/35V Electrolytic	114083
C3	33P(J) Ceramic	113357	C90	100/35V Electrolytic	109969
			C91,92	150P(J) Ceramic	114084
			C93,94	.12(M) Polyester	112342
			C451,452,457,458,463-466	.022(J) Polyester	109972
			C453,454	.15(J) Polyester	112197
			C455,456	.22(J) Polyester	112198
			C459,460	.33(J) Polyester	112199
			C461,462	.015(K) Polyester	114105
			C467,468,491,492,535	.01(YZ) Ceramic	109931
			C469,470	.0068(G) Polyester	112202
			C471,472	.0012(G) Polyester	112201
			C473,474,489,490,511,512	330P(K) Ceramic	109944

Symbol	Description	Part Number	Symbol	Description	Part Number
C475,476	27P(J) Ceramic	113280	R24	36K (J) Carbon	114086
C479,480	100/35V (LL) Ceramic	114106	R25,40,541,542	39K (J) Carbon	113320
C481,482,485,486	10Pf(J) Ceramic	109964	R27,501,502,505-508	12K (J) Carbon	113346
C483,484	100Pf(K) Ceramic	109939	R28,52,61,62,77,78,491,492	2.2K (J) Carbon	107170-222
C487,488	220/16V Electrolytic	109954	R33,46	33K (J) Carbon	113322
C493,494	22/35V (LL) Electrolytic	114107	R36,903,904	22K (J) Carbon	113341
C495,496	220/25V (LL) Electrolytic	114108	R38,523,524	4.7K (J) Carbon	113377
C501,502	.27(K) Polyster	112314	R39,485,486	270K (J) Carbon	114087
C503,504	.0012(K) Polyster	112312	R41,89,90,487-490,521,522,525,526	6.8K (J) Carbon	113289
C505,506	47/25V Electrolytic	114109	R43	560 (J) Carbon	113352
C507,508	.047(YZ) Ceramic	114071	R44,53,527,528,902	5.6K (J) Carbon	114088
C509,510	150Pf(K) Ceramic	114110	R45	1.5K (J) Carbon	113321
C513	33/16V Electrolytic	113412	R48	220K (J) Carbon	113318
C515,516	470Pf(K) Ceramic	114111	R54	16K (J) Carbon	114089
C519,520	2Pf(D) Ceramic	114112	R55	4.7 (J) Carbon	114090
C521,522	100/50V Electrolytic	114113	R57,79,80,93,94,479,480,497,498	100K (J) Carbon	113281
C523,524,541,542	.047(M) Polyster	112222	R59,60,67,68	2.7K (J) Carbon	113340
C525,526	100/25V Electrolytic	114114	R65,66	820 (J) Carbon	113383
C527,528	.33(K) Polyster	112315	R75,76	82K (J) Carbon	113350
C531,532	.0022(K) Polyster	112313	R81,82	330K (J) Carbon	114091
C533,534	470/16V Electrolytic	113407	R83,84	1.3K (J) Carbon	114092
C537	1000/35V Electrolytic	114115	R85,86	62K (J) Carbon	113399
C538	220/50V Electrolytic	114116	R87,88	750K (J) Carbon	114093
C539,540	6800/50V Electrolytic	114117	R97,98	5.1K (J) Carbon	113375
C543,544	1000/16V Electrolytic	113364	R451-454	1.2K (G) Carbon	113386
C549,550	47/50V Electrolytic	114118	R455,456	3.3K (G) Carbon	113385
C601	.0068 Line By Pass	112363	R457,458	3.6K (G) Carbon	113388
C902,904	.0018(J) Polyster	109967	R459,460	4.32K (F) Metal Film	112203
C903	.0036(J) Polyster	114126	R461,462	13K (G) Carbon	113389
C905	1/25V (LL) Electrolytic	114127	R463,464	160K (G) Carbon	113391
			R465,466	82K (G) Carbon	113390
			R467,468	2.7K (G) Carbon	113392
			R469,470	2.4K (G) Carbon	113393
			R471,472	68K (G) Carbon	113394
			R473,474	750 (G) Carbon	113397
			R475,476	510 (G) Carbon	113396
			R477,478	1K (G) Carbon	113395
			R493,494	110 (J) Carbon	114119
			R495,496,906	1.2K (J) Carbon	113323
			R499,500	2.2 (1W J) Metal Film	114120
			R503,504,511,512,562	8.2K (J) Carbon	113379
			R509,510	24K (J) Carbon	113380
			R519	4.7K (1W K) Metal Oxide	112317
			R529,530,533,534	180 (1W J) Metal Oxide	112320
			R531,532	10 (J) Carbon	113351
			R535-538	.47 (5W J) Cement	112323
			R539,540	22 (2W K) Metal Oxide	112226
			R545,546	9.1K (J) Carbon	114123
			R553,554	390K (J) Carbon	113382
			R555,556	3.3K (1W K) Metal Oxide	112319
			R557,558	150 (J) Fuse Resistor	112318
			R559,560	330 (1W J) Metal Oxide	112321
			R561	47 (1/2W J) Carbon	113251
			R563,564	82 (2W J) Metal Oxide	112322
			R565	18 (J) Carbon	114122
			R566-570	220 (J) Carbon	113256
			R571	27K (J) Carbon	113286
			R601	3.3M (1/2W K) Solid	110888
			R901	22K (J) Carbon	113341
			R907	680K (J) Carbon	114101

#### CHOKES, COILS, FILTERS, TRIMMERS

CF1,CF2	Ceramic Filter 10.7MS2 (GY)	112335
L1	Choke Coil 2.2 MH	112184
L2	FM Osc Coil	112130
L3	Choke Coil 18uH (J)	112238
L4	Choke Coil 3.9 MH (K)	112338
L5	AM Osc Coil	109907
L451,452	Choke Coil 2uH	112141
LPF1,LPF2	Low Pass Filter	112337
T1	FM Ant Coil	112128
T2	FM RF Coil	112297
T3	FM IFT	112133
T4	FM IFT	112331
T5	FM IFT	112332
T6	AM IFT	112334
T7	Ber Ant	112327
T8	AM IFT	112333
T601	Burn Coil	109860
TC3	Trimmer Cap 6P	109910
TC5	Trimmer Cap 8P	112339

#### RESISTORS

##### Tolerance Table

(G) = 2% (J) = 5% (K) = 10% (M) = 20%  
Unless otherwise stated, all resistors are 1/4 watt.

##### Semi-Fixed

VR1	5K	112343
VR2	20K	112247
VR451,452	3K	112324

##### Potentiometers

VR3,4	250K(B) Volume	112329
VR5	250K(G) Volume	112330
VR453-456	25K(B) Volume	112310

##### Fixed

R1,37,549,550	1M (J) Carbon	113282
R2,7,12,17,58,71	22 (J) Carbon	113284
R3	220 (J) Carbon	113349
R4,13,49,51,63,64	3.3K (J) Carbon	107157-332
R5	18K (J) Carbon	113367
R6,14,26,31,42,56,481,482,547,548,908	1K (J) Carbon	113238
R8,35,91,95,96,543,544,	15K (J) Carbon	113347
R9,19,21,32,517,518,905	10K (J) Carbon	113288
R10,551,552	3.9K (J) Carbon	113354
R11,47	100 (J) Carbon	113285
R15,29	47K (J) Carbon	113343
R16,20,30,50	330 (J) Carbon	113290
R18,515,516	1.8K (J) Carbon	113345
R22,72,483,484	150K (J) Carbon	113283
R23,513,514	68K (J) Carbon	114085

#### MISCELLANEOUS

##### METERS

M601	Tuning Meter	112173
M602	Signal Meter	112172

##### LAMPS

PL451-456	65mA/6.3V	112126
PL457,458	150mA/6.3V	112296
PL459-463	200mA/6.3V	109856
PL601	65mA/6.3V	112306

##### SWITCHES

SW1	Push Switch	112326
SW2	Power Switch	112303
SW451,452	Slide Switch	112176
SW453	Push Switch	112308

8P Jack	112328
Headphone Jack	109870
Antenna Terminal	112362
F Type Terminal	114125
Output Terminal	112309
AC Cord	112304
AC Outlet	109866
Fuse Holder	112159
Fuse Holder	112366
Lamp Holder	112165
PCB Holder	112325
Ferrite Bead	109918
Shield Plate (A)	114094
Shield Plate (B)	109912

# 110 V SCHEMATIC

